



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/688,337

10/17/2003

Yan Borodovsky

P17482

2304

59796

7590

08/20/2009

INTEL CORPORATION

c/o CPA Global

P.O. BOX 52050

MINNEAPOLIS, MN 55402

EXAMINER

CHACKO DAVIS, DABORAH

ART UNIT

PAPER NUMBER

1795

MAIL DATE

DELIVERY MODE

08/20/2009

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.



## DETAILED ACTION

### ***Claim Rejections - 35 USC § 112***

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 1-2, 16-28, and 37, are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Claims 1, 16, 22, and 37, recite "resizing in a direction perpendicular to the lines and spaces in positions where the arbitrarily-shaped features do not completely overlap the lines and spaces in the array". The instant specification does not disclose "arbitrarily-shaped features that do not completely overlap the lines and spaces in the array". Either the arbitrarily-shaped features overlap the lines and spaces or they do not overlap the lines and spaces at all, as disclosed in the specification as "not overlapped" and "overlapped" states, and as illustrated in the drawings. Appropriate correction is required.

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 1-2, 16-28, 37, are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter

Art Unit: 1795

which applicant regards as the invention. Claims 1, 16, and 37, recite "resizing in a direction perpendicular to the lines and spaces in positions where the arbitrarily-shaped features do not completely overlap the lines and spaces in the array". The claim limitation in claims 1, 16, and 37, recite that arbitrary features overlaps one or more of the periodic lines and spaces or overlap some of the lines and spaces in the array, or shield portions of the periodic lines and spaces. It is not clear as to what is meant by "arbitrarily-shaped features that do not completely overlap the lines and spaces in the array". Either the arbitrarily-shaped features overlap the lines and spaces or they do not overlap the lines and spaces at all, as disclosed in the specification and illustrated in the drawings. Claim 22, recites "resizing in a direction perpendicular to the lines and spaces in positions where the arbitrarily-shaped features do not completely overlap the lines and spaces in the array". There is insufficient antecedent basis for this limitation in claim 22, because claim 22 does not recite an arbitrarily-shaped feature that does not completely overlap the periodic lines and spaces in the array. In fact, Claim 22, recites alternating lines and spaces in the first layer and the subsequent printing of a first feature, second feature and third feature that overlap respectively a first collection, second collection, and third collection of the repeating lines and spaces. Appropriate correction is required.

### ***Response to Arguments***

5. Applicant's arguments, see Remarks, filed April 13, 2009, with respect to claims 1-2, 16-28, and 37, have been fully considered and are persuasive. The 35 U.S.C.103(a) rejections of claims 1-2, 16-28, and 37, have been withdrawn.

***Conclusion***

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daborah Chacko-Davis whose telephone number is (571) 272-1380. The examiner can normally be reached on M-F 9:30 - 6:00. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark F Huff can be reached on (571) 272-1385. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status

Art Unit: 1795

information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Daborah Chacko-Davis/  
Examiner, Art Unit 1795

August 17, 2009.